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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/004,151	11/02/2001	Michael A. Jones	5217.61003	8529	
34282 7590 02/05/2007 QUARLES & BRADY LLP ONE SOUTH CHURCH AVENUE, SUITE 1700			EXAMINER		
			LU, JIPING		
TUCSON, AZ 85	701-1621		ART UNIT	PAPER NUMBER	
			3749		
SHORTENED STATUTORY P	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONT	THS	02/05/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
Office Action Summary		10/004,151	JONES, MICHAEL A	JONES, MICHAEL A.	
		Examiner	Art Unit		
		Jiping Lu	3749		
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet	with the correspondence addre	9SS	
A SHI WHIC - Exter - after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING Ensions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statule reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU .136(a). In no event, however, may d will apply and will expire SIX (6) No te, cause the application to become	NICATION. If a reply be timely filed IONTHS from the mailing date of this commendate of this comment.		
Status	·			•	
2a)□	Responsive to communication(s) filed on 4/20 This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal m	• •	nerits is	
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□ 10)□	Claim(s) 1-19 and 23-26 is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) 1-19 is/are allowed. Claim(s) 23 and 24 is/are rejected. Claim(s) 25-26 is/are objected to. Claim(s) are subject to restriction and/on Papers The specification is objected to by the Examin The drawing(s) filed on is/are: a) according a content of the Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examin The oath or declaration is objected	er. cepted or b) objected or drawing(s) be held in abection is required if the drawing.	yance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR		
Priority ι	ınder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureasee the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have be au (PCT Rule 17.2(a)).	n Application No en received in this National Sta	age	
Attachmen		as 🗖 have eve	ou Summon (PTO 442)		
2) Notice 3) Information	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 23-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Touborg (U. S. Pat. 4,025,295).

Touborg discloses a calcinations plant for a particulate feed material (see Fig. 7) comprising a substantially vertical calcinations reactor 3 having a bottom portion 2, means 4,6 for effecting transport of the particulate feed material through said calcinations reactor along a substantially cyclonic flow path (see Figs. 3-6) and means 7 for creating a heat source within said cyclonic flow path, said effecting means comprising means 6 for introducing the particulate material into said calcinations reactor 3 substantially tangentially of said bottom portion and said cyclonic flow path extending upwards from said bottom portion (see Figs. 3, 5 and col. 6, lines 60-64, col. 7, lines 6-12), said creating means 7 being mounted in said bottom portion 2 and comprises a burner 7.

3. Claims 23-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Kluonage (U. S. Pat. 3,584,848).

Kluonage discloses a calcinations plant for a particulate feed material (see Fig. 1) comprising a substantially vertical calcinations reactor 38 having a bottom portion 42, means

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30,32 for effecting transport of the particulate feed material through said calcinations reactor along a substantially cyclonic flow path (col. 3, lines 11-31 and Figs. 2-3) and means 26 for creating a heat source within said cyclonic flow path, said effecting means comprising means 30, 32 for introducing the particulate material into said calcinations reactor 38 substantially tangentially of said bottom portion and said cyclonic flow path extending upwards from said bottom portion (see Figs. 2-3, and col. 3, lines 11-31, col. 4, line 63 to col. 5, col. 5) said creating means 26 being mounted in said bottom portion 42 and comprises a burner 26.

Allowable Subject Matter

- 4. Claims 1-19 are allowed.
- 5. Claim 25-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, COCKS JOSIAH can be reached on 571 272-4874. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jiping Lu Primary Exa

Primary Examiner Art Unit 3749

J. L.